# WHAT IS CLAIMED IS: (US)

1. A shift register block comprising:

at least one system of a shift register constituted of a plurality of unit circuits in a form of cascade connection and outputting an input signal in response to a clock signal, the shift register sequentially outputting a selection signal from output-stages constituted of the unit circuits,

wherein:

the plurality of unit circuits are disposed with a unit circuit of a preceding output stage and a unit circuit of a following output stage being separated by a circuit different from the unit circuits.

2. The shift register block as set forth in claim 1, wherein:

the unit circuits are flip-flop circuits.

3. The shift register block as set forth in claim 1, wherein:

the circuit different from the unit circuits is a processing circuit which uses output of one of the unit circuits constituting the shift register.

4. The shift register block as set forth in claim 1,

### wherein:

the circuit different from the unit circuits is a unit circuit constituting a shift register of a different system.

5. The shift register block as set forth in claim 1, wherein:

the circuit different from the unit circuits is a processing circuit which uses output of one of the unit circuits constituting the shift register, a unit circuit constituting a shift register of a different system, or a processing circuit which uses output of the unit circuit constituting the shift register of the different system.

6. The shift register block as set forth in claim 4, wherein:

the shift register block includes signal paths for the shift registers of the respective systems, the signal path being provided separately for each of the shift registers of the respective systems on both sides of a circuit alignment constituted of the unit circuits of the shift registers of the respective systems.

7. The shift register block as set forth in claim 5, wherein:

the shift register block includes signal paths for the

shift registers of the respective systems, the signal path being provided separately for each of the shift registers of the respective systems on both sides of a circuit alignment constituted of the unit circuits of the shift registers of the respective systems.

## 8. A signal line driving circuit, comprising:

a shift register block for sequentially outputting a selection signal, so as to drive a plurality of signal lines,

wherein:

the shift register block comprises:

at least one system of a shift register constituted of a plurality of unit circuits in a form of cascade connection and outputting an input signal in response to a clock signal, the shift register sequentially outputting a selection signal from output-stages constituted of the unit circuits, the plurality of unit circuits being disposed with a unit circuit of a preceding output stage and a unit circuit of a following output stage being separated by a circuit different from the unit circuits.

# 9. A data signal line driving circuit comprising:

a sampling section for driving a plurality of data signal lines by sampling image data from an image signal according to a selection signal sequentially outputted from a shift register block so as to transfer the image data to the data signal lines,

wherein:

the shift register block comprises:

at least one system of a shift register constituted of a plurality of unit circuits in a form of cascade connection and outputting an input signal in response to a clock signal, the shift register sequentially outputting a selection signal from output-stages constituted of the unit circuits, the plurality of unit circuits being disposed with a unit circuit of a preceding output stage and a unit circuit of a following output stage being separated by a circuit different from the unit circuits.

10. The data signal line driving circuit as set forth in claim 9, wherein:

the sampling section carries out sampling of image data of divided image signals which are generated by dividing the image signal according to an alignment order of the data signal lines, the sampling section simultaneously carrying out sampling of the image data of the divided image signals.

11. The data signal line driving circuit as set forth in claim 9, wherein:

the image signal is an analog signal, and the circuit different from the unit circuits is made up of at least one of a waveform shaping circuit, a buffer circuit, a sampling circuit, and a level shifter circuit, which use outputs of the unit circuits constituting the shift register.

12. The data signal line driving circuit as set forth in claim 9, wherein:

the image signal is a digital signal, and the circuit different from the unit circuits is made up of at least one of a data latch circuit, a digital/analog conversion circuit, an output circuit, a level shifter circuit, and a decoder circuit, which use outputs of the unit circuits constituting the shift register.

- 13. A display device, comprising:
- a plurality of data signal lines;
- a plurality of scanning signal lines intersecting with the data signal lines;

pixels provided for each pair of the data signal lines and the scanning signal lines;

- a scanning signal line driving circuit for driving the scanning signal lines; and
- a data signal line driving circuit comprising a sampling section for driving a plurality of data signal lines

by sampling image data from an image signal according to a selection signal sequentially outputted from a shift register block so as to transfer the image data to the data signal lines,

#### wherein:

the shift register block of the data signal line driving circuit comprises:

at least one system of a shift register constituted of a plurality of unit circuits in a form of cascade connection and outputting an input signal in response to a clock signal, the shift register sequentially outputting a selection signal from output-stages constituted of the unit circuits, the plurality of unit circuits being disposed with a unit circuit of a preceding output stage and a unit circuit of a following output stage being separated by a circuit different from the unit circuits.

14. The display device as set forth in claim 13, wherein:

the data signal line driving circuit and the scanning signal line driving circuit are formed on a substrate on which the pixels are formed.

15. The display device as set forth in claim 14, wherein:

the pixels, the data signal line driving circuit, and the scanning signal line driving circuit include active elements, respectively, each of which is made of a polysilicon thin film transistor.

16. The display device as set forth in claim 15, wherein:

the active elements are formed on a glass substrate at a process temperature of not more than 600°C.